The Political Science 400: A 20-Year Update

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In academia, citation is the sincerest form of flattery.—A Wuffle (1986)

This essay is the first of a planned three-part series dealing with quantitative indicators of continuity and change in the political science discipline, focusing on the period since 1960. The series is inspired by the work of Somit and Tanenhaus (1967) which presented reputational rankings of both departments and individuals. For this series of essays, we created a unique database in which we recorded cumulative citation counts between 1960–2005 for all regular faculty members of U.S. Ph.D.-granting institutions ca. 2002. In addition to identifying the department at which the individuals in this data set are presently employed, we have also collected information on their date of Ph.D. and the institution from which their Ph.D. was awarded.

In this essay, we identify the 400 most-cited scholars who (ca. 2002) were teaching in political science graduate departments in the U.S., breaking down this data by subfield, by cohort, and by gender. In the next paper of the series, to be published in the April 2007 issue of *PS*, we explore the history of the discipline in quantitative terms by examining the changes in departmental Ph.D. production and placement rates over the last century and look at patterns of cross-departmental hiring. Paper three of the series, to be published in the July 2007 issue of *PS*, compares various ranking approaches in order to examine the visibility and impact of Ph.D.-granting departments. In that essay, we incorporate both the citation count data presented in this current paper and the placement data from the second paper into a multivariate model to predict departmental reputation.

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Bernard Grofman, *whose past research has dealt with mathematical models of group decision making, legislative representation, electoral rules, and redistricting, has been at the University of California, Irvine since 1976 and professor of political science at UCI since 1980. He is co-author of four books, published by Cambridge University Press, and co-editor of 16 other books; he has published over 200 research articles and book chapters. Grofman is a past president of the Public Choice Society and in 2001 he became a fellow of the American Academy of Arts and Science.*

Scott L. Feld, *professor of sociology at Purdue University, continues his investigations into systematic causes and consequences of patterns in social networks, including academic placement networks. He is also continuing to study how collective decision making processes are affected by social structures in the forms of group memberships, norms, and social networks.*

Identifying Measures of Individual Impact and Prominence

There are various ways to measure a scholar's impact or academic contributions.[1] Most studies of scholarly visibility or impact in political science, however, have made use of one of three types of measures: surveys of political scientists' assessments of their fellow scholars, cumulative counts of article publications, and cumulative citation counts.

In one of the early reputational studies, Somit and Tanenhaus (1967) compiled a list of the most influential scholars in political science by sending a questionnaire to all members of the American Political Science Association in which they asked respondents to list the scholars who have made the "most significant contribution" to the discipline for two periods: pre-1945 and 1945–1963. Although Somit and Tanenhaus ultimately identified a core group of the profession's "notables," they found a significant degree of disagreement among their respondents. These differences were especially apparent when the authors disaggregated the respondents by their respective disciplinary subfields. Roettiger (1978) updated the Somit and Tanenhaus study, but also included reputational rankings of political scientists considered as public intellectuals.

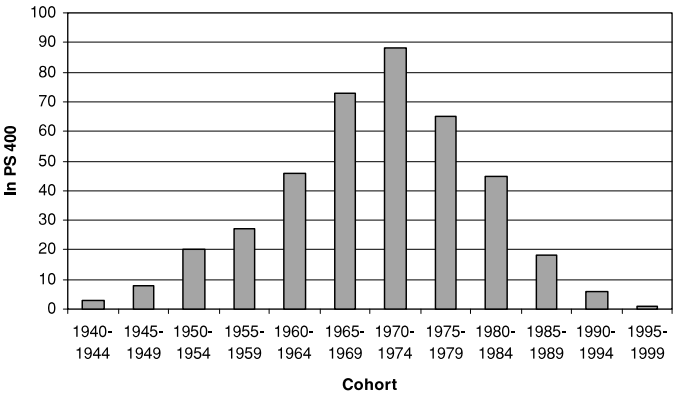
An alternative measure of scholarly impact might define rankings based on a scholar's total number of publications in the discipline's most prestigious academic journals (e.g., Robey 1979; Morgan and Fitzgerald 1977; Bayard and Mitchell 1998; and McCormick and Rice 2001).[2] However, these studies do not provide the publication data of individual scholars since their purpose is to rank and compare departments.

The most recent work dealing with scholarly visibility and impact (especially that on the sociology of the natural sciences) makes use of the citation data from the Web of Science data set whose compilation began in 1973. A number of scholars in political science (e.g., Klingemann 1986; Klingemann, Grofman, and Campagna 1989; Miller, Tien, and Peebler 1996) have made use of the Social Sciences Citation Index (SSCI) component of the Web of Science.[3]

In this article, we rely on citation count data to measure an individual's scholarly impact on the profession. Rather, like the Fortune 500 which ranks corporations by their total gross revenue, we identify the "notables" of our time by ranking individual scholars based on their cumulative citation counts. We agree with Miller, Tien, and Peebler (1996, 73–4) that citations provide "a useful and valid measure for determining standing in the profession." Citation data can be preferable to publication data in that many publications, even ones in prestigious journals, have little or no impact or visibility in the field. Moreover, work published in less-prestigious journals may nonetheless come to be highly visible and influential. Perhaps even more importantly, judging visibility only by article publication discriminates against those scholars whose publications come as books. In contrast, while it is true that the SSCI only lists citations that are found in articles, all citations in those articles, whether to books, to other articles, or even to unpublished materials, are tallied in the SSCI counts. Of course, as all authors who use citation data acknowledge, we recognize that such data have their limitations, and in an extensive methodological appendix we address some of the particular problems that arise with using citations for ranking purposes in political science.[4]

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Figure 1
Cohort Distribution of Political Science 400



The Political Science 400

This paper updates the work by Klingemann (1986) and Klingemann, Grofman, and Campagna (1989). The latter work identifies the 400 most-cited U.S. scholars in the profession by tallying the citations to lifetime bodies of work in all journals included in the SSCI database during the five-year period: 1981–1985.[5] We extend their data set forward to include 20 additional years of citation data, from 1996–2005; we also took advantage of improvements in the online SSCI data set to include citation counts in journals published from 1960–1980. Thus, we now have citation data that span 45 years.[6]

In Table 1 (which parallels Table 1 in Klingemann, Grofman, and Campagna 1989) we identify by name the top 25 scholars from that list of 400 in each five-year cohort.[7] Because the citation records of younger cohorts cannot be directly compared with the citation records of older cohorts, we disaggregate by five-year cohorts in order to control for the length of time a scholar has had to accumulate citations. In addition, Table 1 also reports the date of Ph.D., Ph.D.-granting department, present (ca. 2002) Ph.D. institution,[8] total citations, and primary and secondary field of interest (using six subfield categories: American, Comparative, International Relations, Methodology, Political Theory, and a combined category of Public Policy, Public Administration, and Public Law).

Breakdown of the Political Science 400 by Ph.D. Cohort

In Figure 1, we show the distribution of scholars in the top 400 by five-year Ph.D. cohort. As we see in this figure, older cohorts make up a larger proportion of the Political Science 400. The largest number of top scholars comes from the 1970–1974 cohort.

However, the slight overrepresentation of older cohorts may be simply a reflection of the cohort distribution in the profession as a whole. To better understand the patterns seen in Figure 1 we need to take into account relative cohort sizes. We can generate an index of overrepresentation by dividing each cohort's share of the Political Science 400 by its share of total Ph.D.s produced over the corresponding decades. For this index, values that are above 1 indicate overrepresentation. Table 2 (which parallels Table 5 in Klingemann, Grofman, and Campagna 1989) shows the values of this index for each cohort.

We see from Table 2 that older cohorts are much more overrepresented in the Political Science 400 than younger cohorts. However, the 1965–1969 cohort is the most overrepresented (with an index value of nearly 5), while the oldest cohort, 1940–1944, is underrepresented (with an index value of only 0.72). Highly cited scholars appear to remain in the academy longer than their peers, but factors such as retirement and death limit the length of their careers, thereby eventually weakening the dominance of older cohorts. The underrepresentation of younger cohorts speaks to the time-lag of publishing and citing. But, of course, as more time passes, we expect these younger cohorts and new rising scholars to dominate the top 400.

The Distribution of Citation Counts

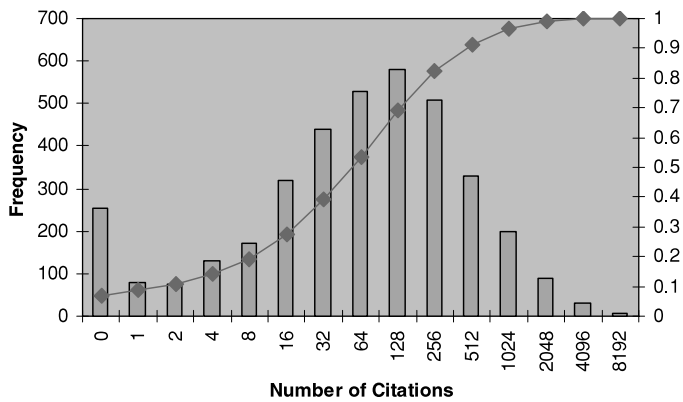
As shown in Figure 2, overall citation data has a nearly lognormal distribution, but with a fat left tail at zero. In other words, those with very high citation counts have exponentially more citations than those with few citation counts, and there are a non-trivial number of faculty teaching at Ph.D.-granting universities who, over the course of their careers to date, have garnered zero citations to their work (at least in terms of the citations to their work found in the very large set of journals [1,000+] included within the SSCI).

We might expect, however, that some of this difference is due to cohort effects. In particular, we might think that most of those with zero citations would be recently minted Ph.D.s. But after disaggregating the data for the 1940–1949, 1950–1959, 1960–1969, 1970–1979, 1980–1989, and 1990–1999 cohorts (figures not shown), we continue to find zero cumulative citations to some scholars within each cohort even for publications published long enough ago to have had a considerable time to attract citations. Of course, not surprisingly, the proportion is at its highest in the most recent cohort, with 10% in that cohort having zero citations to their work. Within each cohort, except for the 1990–1999 cohort, we also find similar lognormal distributions of cumulative citations to the work done within each decade,[9] although, as expected, the range of citation counts is greater for work done by the older cohorts who have had longer to accumulate citations to their work.

Breakdown of the Political Science 400 by Disciplinary Subfields

Klingemann (1986, Table 3, 657) breaks down the most highly cited faculty according to subfields, creating a five-fold breakdown of subfields (Political Theory/Political Thought, American Politics/Political Behavior, Comparative Politics, International Relations, and

Figure 2
Cumulative Citations for Faculty at U.S. Ph.D. Granting Departments 1960–2005



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Table 1
Top 25 Individuals in Each Five-Year Cohort Who Are Also in the Political Science 400 ca. 2002

Name	University	Univ. of Ph.D.	Year	Index	FINT1*	FINT2
1940–1944						
Robert A. Dahl	Yale	Yale	1940	5902	PT	CP
Lynton K. Caldwell	Indiana	Chicago	1943	691	CP	PP
Milton J. Esman	Cornell	Princeton	1942	685	PP	CP
N = 3						
1945–1949						
David Easton	UC Irvine	Harvard	1947	2442	PT	ME
Giovanni Sartori	Columbia	U of Florence	1946	1924	PT	CP
Doris A. Graber	U of Illinois-Chicago	Columbia	1947	1141	PP	AP
Fred W. Riggs	U of Hawaii	Columbia	1948	1004	CP	PP
Robert A. Scalapino	UC Berkeley	Harvard	1948	636	IR	CP
Inis L. Claude, Jr.	U of Virginia	Harvard	1949	603	PP	IR
Leon D. Epstein	Wisconsin	Chicago	1948	569	AP	CP
Samuel J. Eldersveld	Michigan	Michigan	1946	447	CP	AP
N = 8						
1950–1959						
Samuel P. Huntington	Harvard	Harvard	1951	6437	CP	IR
Kenneth N. Waltz	Columbia	Columbia	1954	2520	IR	
Lucian W. Pye	MIT	Yale	1951	1974	CP	
Ernst B. Haas	UC Berkeley	Columbia	1952	1268	IR	
David E. Apter	Yale	Princeton	1954	1263	PT	CP
Robert E. Lane	Yale	Harvard	1950	1220	PT	AP
Stanley Hoffmann	Harvard	U of Paris	1953	1207	CP	IR
Vincent Ostrom	Indiana	UCLA	1950	1064	PT	PP
James C. Davies	U of Oregon	UC Berkeley	1952	1036	CP	IR
David Braybrooke	U of Texas-Austin	Cornell	1953	980	PT	ME
Donald R. Matthews	U of Washington	Princeton	1953	973	AP	
Joseph Lapalombara	Yale	Princeton	1954	807	CP	PP
Duncan Macrae, Jr.	UNC Chapel Hill	Harvard	1950	783	PP	
Frank J. Sorauf	Minnesota	Wisconsin	1953	676	AP	PP
Francis E. Rourke	Johns Hopkins	Minnesota	1952	596	PP	
William A. Glaser	New School	Harvard	1952	568	CP	PP
John C. Wahlke	U of Arizona	Harvard	1952	557	ME	
Stephen L. Wasby	SUNY-Albany	U of Oregon	1952	536	PP	PP
Bernard C. Cohen	Wisconsin	Yale	1952	524	IR	
Henry J. Abraham	U of Virginia	U of Penn	1952	482	AP	PP
N = 20						
1955–1959						
James Q. Wilson	UCLA	Chicago	1959	7112	PP	
Benedict Anderson	Cornell	Cornell	1957	3254	CP	
Sidney Verba	Harvard	Princeton	1959	3254	CP	AP
Harold L. Wilensky	UC Berkeley	Chicago	1955	2873	CP	PP
J. David Singer	Michigan	NYU	1956	2086	IR	ME
James N. Rosenau	George Washington	Princeton	1957	1945	IR	CP
Juan J. Linz	Yale	Columbia	1959	1894	CP	
Richard F. Fenno, Jr.	Rochester	Harvard	1956	1879	AP	
Alexander L. George	Stanford	Chicago	1958	1674	IR	
Robert T. Golembiewski	U of Georgia	Yale	1958	1501	PP	
Robert C. Tucker	Princeton	Harvard	1958	1260	CP	PT
Gerald M. Pomper	Rutgers	Princeton	1959	990	AP	PT
Malcolm E. Jewell	U of Kentucky	Penn State	1958	963	AP	
Robert H. Salisbury	Washington U	U of Illinois-Urbana-Champaign	1955	898	AP	
Samuel C. Patterson	Ohio State	Wisconsin	1959	897	CP	AP
Glenn H. Snyder	UNC Chapel Hill	Columbia	1956	874	IR	
Samuel H. Barnes	Georgetown	Duke	1957	801	CP	
Walter F. Murphy	Princeton	Chicago	1957	690	PP	PT
Richard Rosecrance	UCLA	Harvard	1957	664	IR	
Lloyd I. Rudolph	Chicago	Harvard	1956	580	CP	IR
Leonard Binder	UCLA	Harvard	1956	540	PT	CP
Frederick M. Wirt	U of Illinois-Urbana-Champaign	Ohio State	1956	521	PP	

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Table 1 (Continued)

Name	University	Univ. of Ph.D.	Year	Index	FINT1*	FINT2
1955–1959 (continued)						
Harold J. Spaeth	Michigan State	U of Cincinnati	1956	517	PP	
Herbert E. Alexander	Univ. of So. Cal.	Yale	1958	480	AP	
Donald Rothchild	UC Davis	Johns Hopkins	1958	459	CP	IR
N = 25						
1960–1964						
Arend Lijphart	UC San Diego	Yale	1963	3663	CP	
Bruce M. Russett	Yale	Yale	1961	3564	IR	PP
Theodore J. Lowi	Cornell	Yale	1961	3299	PP	AP
David O. Sears	UCLA	Yale	1962	2859	AP	ME
Frances Fox Piven	CUNY	Chicago	1962	2693	PP	AP
Rudolph J. Rummel	U of Hawaii	Northwestern	1963	2393	IR	
Alfred Blumstein	Carnegie Mellon	Cornell	1961	2095	PP	
David R. Mayhew	Yale	Harvard	1964	1823	AP	
Nelson W. Polsby	UC Berkeley	Yale	1961	1786	AP	PP
M. Kent Jennings	UC Santa Barbara	UNC Chapel Hill	1961	1674	AP	CP
Brian Barry	Columbia	Oxford	1964	1643	PT	
Robert R. Alford	CUNY	CUNY	1961	1478	CP	ME
Fred I. Greenstein	Princeton	Yale	1960	1407	AP	
Walter Dean Burnham	U of Texas-Austin	Harvard	1962	1378	AP	
Melvin J. Hinich	U of Texas-Austin	Stanford	1963	1213	AP	ME
Clarence N. Stone	U of Maryland	Duke	1963	1118	PP	AP
Theodore R. Marmor	Yale	Harvard	1960	1100	CP	PP
Richard Falk	Princeton	Harvard	1962	1082	IR	PT
Jerry Hough	Duke	Harvard	1961	1081	AP	
Richard A. Brody	Stanford	Northwestern	1963	1058	AP	
Martin Shapiro	UC Berkeley	Harvard	1961	1036	CP	PP
Hayward R. Alker	Univ. of So. Cal.	Yale	1963	997	IR	ME
Martha Derthick	U of Virginia	Radcliffe	1962	963	PP	
Aristide R Zolberg	New School	Chicago	1961	924	CP	PP
Charles O. Jones	Wisconsin	Wisconsin	1960	814	AP	PP
N = 25						
1965–1969						
Robert Axelrod	Michigan	Yale	1969	4971	PP	IR
Ronald Inglehart	Michigan	Chicago	1967	4128	CP	
Robert O. Keohane	Duke	Duke	1966	3951	IR	ME
Ted Robert Gurr	U of Maryland	NYU	1965	3372	CP	
Adam Przeworski	NYU	Northwestern	1966	3268	CP	
Elinor Ostrom	Indiana	UCLA	1965	2888	PP	
Philippe C. Schmitter	Stanford	UC Berkeley	1968	2375	IR	CP
James C. Scott	Yale	Yale	1967	1950	CP	
John W. Kingdon	Michigan	Wisconsin	1965	1903	AP	PP
Richard G. Niemi	Rochester	Michigan	1967	1875	AP	
Robert S. Erikson	Columbia	U of Illinois-Urbana-Champaign	1969	1787	ME	AP
Sidney Tarrow	Cornell	UC Berkeley	1965	1718	CP	IR
Steven J. Brams	NYU	Northwestern	1966	1683	IR	AP
Paul E. Peterson	Harvard	Chicago	1967	1622	PP	
Donald L. Horowitz	Duke	Harvard	1968	1619	CP	PP
Robert Jervis	Columbia	UC Berkeley	1968	1554	IR	
Robert H. Bates	Harvard	MIT	1969	1539	CP	
Paul R. Abramson	Michigan State	UC Berkeley	1967	1537	CP	AP
Benjamin R. Barber	U of Maryland	Harvard	1967	1493	PT	IR
Paul M. Sniderman	Stanford	UC Berkeley	1968	1457	AP	
Alfred C. Stepan	Columbia	Columbia	1969	1125	CP	
Douglas W. Rae	Yale	U of Wisconsin-Eau Claire	1967	1113	AP	
Lawrence B. Mohr	Michigan	Michigan	1966	1101	ME	PP
Michael Piore	MIT	Harvard	1966	1055	CP	
William E. Connolly	Johns Hopkins	Michigan	1965	1038	PT	IR
N = 25						
1970–1974						
Norman H. Nie	Stanford	Stanford	1970	8016	AP	ME
Robert D. Putnam	Harvard	Yale	1971	5993	CP	AP

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Table 1 (Continued)

Name	University	Univ. of Ph.D.	Year	Index	FINT1*	FINT2
1970–1974 (continued)						
Stephen D. Krasner	Stanford	Harvard	1972	2515	IR	
Carole Pateman	UCLA	Oxford	1971	2282	PT	PP
Kenneth A. Shepsle	Harvard	Rochester	1970	2280	CP	AP
Jonathan Elster	Columbia	U of Paris	1972	2213	CP	PT
Guillermo A. O'Donnell	Notre Dame	Yale	1971	1966	IR	
Peter J. Katzenstein	Cornell	Harvard	1973	1799	IR	CP
Michael S. Lewis-Beck	U of Iowa	Michigan	1973	1761	ME	CP
Lee Sigelman	George Washington	Vanderbilt	1973	1755	ME	AP
Susan Welch	Pennsylvania State	U of Illinois-Urbana-Champaign	1970	1679	AP	PP
Benjamin I. Page	Northwestern	Stanford	1973	1677	AP	
Gary C. Jacobson	UC San Diego	Yale	1972	1653	AP	
Wesley G. Skogan	Northwestern	Northwestern	1971	1598	AP	PP
Arthur H. Miller	U of Iowa	Michigan	1971	1566	CP	AP
Hugh Heclo	George Mason	Yale	1970	1535	PP	AP
Bernard Grofman	UC Irvine	Chicago	1972	1532	PT	PP
Russell Hardin	NYU	MIT	1971	1508	PT	PP
Susan Rose-Ackerman	Yale	Yale	1970	1501	CP	PP
Todd Sandler	Univ. of So. Cal.	SUNY-Binghamton	1971	1386	IR	
Robert W. Jackman	UC Davis	Wisconsin	1972	1321	CP	PT
John Ferejohn	Stanford	Stanford	1972	1184	AP	
Shanto Iyengar	Stanford	U of Iowa	1973	1075	ME	AP
Thomas Romer	Princeton	Yale	1974	1045	AP	ME
Lester M. Salamon	Johns Hopkins	Harvard	1971	1042	PP	
N = 25						
1975–1979						
Theda Skocpol	Harvard	Harvard	1975	3898	PP	CP
Barry R. Weingast	Stanford	Cal Tech	1977	2884	AP	
John H. Aldrich	Duke	Rochester	1975	2512	AP	ME
Donald R. Kinder	Michigan	UCLA	1975	2488	ME	AP
Edward G. Carmines	Indiana	SUNY-Buffalo	1975	2369	AP	ME
Terry M. Moe	Stanford	Minnesota	1976	1691	AP	
Charles F. Sabel	Columbia	Harvard	1979	1556	CP	PT
Greg Markus	Michigan	Michigan	1975	1399	AP	ME
Charles C. Ragin	Northwestern	UNC Chapel Hill	1975	1327	CP	ME
Russell J. Dalton	UC Irvine	Michigan	1978	1229	CP	ME
Kenneth J. Meier	Texas A&M	Syracuse	1975	1182	PP	
Amy Gutmann	Princeton	Harvard	1976	1124	PT	PP
Nathaniel Beck	UC San Diego	Yale	1977	1107	ME	AP
Keith T. Poole	Carnegie Mellon	Rochester	1978	1094	ME	AP
Mary Corcoran	Michigan	MIT	1975	1077	PP	
James E. Alt	Harvard	Essex	1978	1068	ME	CP
Jack S. Levy	Rutgers	Wisconsin	1976	1043	IR	
David R. Cameron	Yale	Michigan	1976	985	CP	
Charles W. Ostrom	Michigan State	Indiana	1975	935	ME	IR
James L. Gibson	Washington U	U of Iowa	1975	923	PP	CP
Gregory A. Caldeira	Ohio State	Princeton	1977	912	PP	CP
Susan Moller Okin	Stanford	Harvard	1975	909	PT	PP
Stanley Feldman	SUNY-Stony Brook	Minnesota	1978	890	AP	ME
Herbert Kitschelt	Duke	U of Bielefeld	1979	888	CP	
Pamela J. Conover	UNC Chapel Hill	Minnesota	1979	846	AP	
N = 25						
1980–1984						
Gary King	Harvard	Wisconsin	1984	2266	ME	
Nancy Fraser	New School	CUNY	1980	2188	PT	
Peter A. Hall	Harvard	Harvard	1982	1729	CP	
Michael J. Sandel	Harvard	Oxford	1981	1638	PT	
Gary W. Cox	UC San Diego	Cal Tech	1983	1320	AP	CP
Mathew D. McCubbins	UC San Diego	Cal Tech	1983	1223	AP	
D. Roderick Kiewiet	Cal Tech	Yale	1980	1104	AP	PP
John R. Zaller	UCLA	UC Berkeley	1984	1085	AP	
John J. Mearsheimer	Chicago	Cornell	1980	1079	IR	

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Table 1 (Continued)

Name	University	Univ. of Ph.D.	Year	Index	FINT1*	FINT2
1980–1984 (continued)						
Jack L. Snyder	Columbia	Columbia	1981	968	IR	CP
Jeffery A. Segal	SUNY-Stony Brook	Michigan State	1983	893	PP	AP
Stephen M. Walt	Harvard	UC Berkeley	1983	830	CP	IR
Robert Y. Shapiro	Columbia	Chicago	1982	814	AP	ME
Larry M. Bartels	Princeton	UC Berkeley	1983	784	ME	
Scott Mainwaring	Notre Dame	Stanford	1983	769	CP	
Lee Epstein	Washington U	Emory	1983	759	PP	
Martha Feldman	Michigan	Stanford	1983	758	PP	
Duncan Snidal	Chicago	Yale	1981	727	IR	PP
Clyde Wilcox	Georgetown	Ohio State	1984	706	AP	CP
John R. Hibbing	U of Nebraska-Lincoln	U of Iowa	1980	702	AP	CP
James D. Morrow	Michigan	Rochester	1982	698	IR	ME
David A. Lake	UC San Diego	Cornell	1984	664	IR	
Martin P. Wattenberg	UC Irvine	Michigan	1982	660	AP	CP
Michael C. Munger	Duke	Washington U	1984	641	AP	ME
Randall L. Calvert	Washington U	Cal Tech	1980	615	AP	PT
N = 25						
1985–1989						
Donald P. Green	Yale	UC Berkeley	1988	1370	ME	AP
Jon A. Krosnick	Ohio State	Michigan	1985	1301	ME	AP
Paul Pierson	Harvard	Yale	1989	1035	CP	PP
George Tsebelis	UCLA	Washington U	1985	977	CP	AP
Peter M. Haas	U of Mass-Amherst	MIT	1985	892	IR	
Alexander Wendt	Chicago	Minnesota	1989	755	IR	
Helen V. Milner	Columbia	Harvard	1986	622	IR	CP
G. John Ikenberry	Georgetown	Chicago	1985	579	IR	
Paul K. Huth	Michigan	Yale	1986	572	IR	CP
James N. Snyder	MIT	Cal Tech	1985	524	AP	
Stephen D. Ansolabehere	MIT	Harvard	1989	521	AP	ME
Gerald N. Rosenberg	Chicago	Yale	1985	491	AP	PP
Peverill Squire	U of Iowa	UC Berkeley	1986	478	AP	
Margaret Weir	UC Berkeley	Chicago	1986	478	AP	CP
Kathleen Thelen	Northwestern	UC Berkeley	1987	455	CP	
B. Dan Wood	Texas A&M	U of Houston	1987	445	AP	ME
Joshua S. Goldstein	American	MIT	1986	435	IR	ME
John P. McIver	U of Colorado	Indiana	1986	425	AP	PP
N = 18						
1990–1994						
Geoffrey M. Garrett	Yale	Duke	1990	1089	CP	IR
Andrew Moravcik	Harvard	Harvard	1992	922	IR	CP
James D. Fearon	Stanford	UC Berkeley	1992	885	IR	ME
John Brehm	Chicago	Michigan	1990	510	ME	AP
R. Michael Alvarez	Cal Tech	Duke	1992	491	AP	ME
Arthur Lupia	Michigan	Cal Tech	1991	430	AP	PP
N = 6						
1995–1999						
Jonathan N. Katz	Cal Tech	UC San Diego	1995	660	PP	AP
N = 1						

***Field of Interest Codes**
AP = American
CP = Comparative
IR = International Relations
ME = Methodology
PT = Political Theory
PP = Public Policy, Public Administration, and Public Law

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Table 2
An Index of Cohort Overrepresentation in the Political Science 400

Cohort	Total Ph.D.s Produced	Share of Production	PS 400	Share of PS 400	Index of Overrepresentation
1940–1944	310	0.01	3	0.01	0.72
1945–1949	384	0.01	8	0.02	**1.55**
1950–1954	838	0.03	20	0.05	**1.78**
1955–1959	1118	0.04	27	0.07	**1.80**
1960–1964	1449	0.05	46	0.11	**2.37**
1965–1969	1118	0.04	73	0.18	**4.87**
1970–1974	4310	0.14	88	0.22	**1.52**
1975–1979	4267	0.14	65	0.16	**1.14**
1980–1984	3446	0.12	45	0.11	0.97
1985–1989	3613	0.12	18	0.04	0.37
1990–1994	4091	0.14	6	0.01	0.11
1995–1999	4977	0.17	1	0.00	0.01
TOTAL	29921		400		

Public Policy/Public Administration/ Public Law). In Table 3, we provide a parallel analysis by subfield for our more recent data, but here use a six-fold typology involving the same five categories as in Klingemann (1986), but with one additional category, Methodology, that has recently risen to greater prominence. We use the first listed subfield in the *2002 APSA Membership Directory* to define faculty member subfield identification.

We might expect that the Political Science 400 might not reflect all the subfields equally, since, as previously noted, some subfields may be larger than others, and also because the subfields may differ in their citation practices with respect to citation of work by still-living political scientists. Analogous to what we did in Table 2, we can generate an index of overrepresentation by dividing each of the five subfield's share of the Political Science 400 by its share of all faculty teaching in U.S. Ph.D.-granting departments. As before, values on the index that are above 1 indicate overrepresentation. Table 3 also shows the values of this index for each cohort.

We see from Table 3 that three out of the six subfields are slightly overrepresented in the Political Science 400: American Government, Comparative Politics, and Methodology. American Government and Comparative Politics are also two of the larger subfields in the discipline, so if size effects are non-linear that might explain their overrepresentation. However, the overrepresentation of our added sixth category, Methodology, demonstrates the rise of a new subfield in political science. And, the relative underrepresentation of scholars in International Relations, despite the size of that subfield, may suggest that this area is more separated from the others, and thus attracts fewer cross-citations across subfields.

We have also used Klingemann's five-fold typology to identify the 25 most highly cited scholars in each subfield, as shown in Table 4 (paralleling Klingemann 1986, Table 3, 657). Unfortunately, there is no way to break down a scholar's citations by subfield of the paper which is being cited (not to speak of the fact that many individual papers may cross subfield lines). Thus we have no real choice but to use the scholar's own first-listed subfield in the *2002 APSA Membership Directory* to create our subfield specific lists, despite the fact that many scholars publish in multiple subfields.[10]

Gender Representation in the Political Science 400

We show in Table 5 the top 40 women in the profession (as judged by citation counts) teaching at U.S. Ph.D.-granting departments of political science.[11] We see that Stanford is the only department to have four women in the top 40, while Columbia, Harvard, Michigan, University of Illinois-Chicago, UC Berkeley, UC Irvine, UCLA, and the University of Washington each have two.[12] It is also interesting to note that a substantial number of women in this list have been trained at either Harvard, University of Chicago, or Stanford, with virtually all having received their Ph.D.s from highly ranked institutions.

Approximately one fifth of all faculty members in Ph.D.-granting institutions are female, while 23% of political science Ph.D.s conferred between 1966 and 2001 have been awarded to women. When we calculate an index of representation for gender representation (i.e., number of women in the Political Science 400 divided by number of women in the database) we find an index of representation far below 1, namely .539. Of course, since the proportion of women in

Table 3
An Index of Subfield Overrepresentation in the Political Science 400

Subfield	All Faculty	Share of All Faculty	PS400	Share of PS 400	Index of Overrepresentation
American	818	0.221	107	0.267	**1.21**
Comparative	765	0.207	98	0.244	**1.18**
International Relations	779	0.211	67	0.167	0.79
Methodology	173	0.047	22	0.055	**1.17**
Political Theory	445	0.120	36	0.090	0.75
Public Policy, Public Admin, and Public Law	737	0.199	70	0.175	0.88
No Data	24				
TOTAL	3741		400		

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Table 4
Top 20 Individuals in Each Subfield Who Are Also in the Political Science 400 ca. 2002

Name	University	Index
American Government		
Norman H. Nie	Stanford	8016
David O. Sears	UCLA	2859
Barry R. Weingast	Stanford	2884
John H. Aldrich	Duke	2512
Edward G. Carmines	Indiana	2369
John W. Kingdon	Michigan	1903
Richard F. Fenno, Jr.	Rochester	1879
Richard G. Niemi	Rochester	1875
David R. Mayhew	Yale	1823
Nelson W. Polsby	UC Berkeley	1786
Terry M. Moe	Stanford	1691
Susan Welch	Penn State	1679
Benjamin I. Page	Northwestern	1677
M. Kent Jennings	UC Santa Barbara	1674
Gary C. Jacobson	UC San Diego	1653
Wesley G. Skogan	Northwestern	1598
Paul M. Sniderman	Stanford	1457
Fred I. Greenstein	Princeton	1407
Greg Markus	Michigan	1399
Walter D. Burnham	U of Texas-Austin	1378
N = 20		
Comparative Politics		
Samuel P. Huntington	Harvard	6437
Robert D. Putnam	Harvard	5993
Ronald Inglehart	Michigan	4128
Arend Lijphart	UC San Diego	3663
Ted Robert Gurr	U of Maryland	3372
Adam Przeworski	NYU	3268
Benedict Anderson	Cornell	3254
Sidney Verba	Harvard	3254
Harold L. Wilensky	UC Berkeley	2873
Kenneth A. Shepsle	Harvard	2280
Jonathan Elster	Columbia	2213
Lucian W. Pye	MIT	1974
James C. Scott	Yale	1950
Juan J. Linz	Yale	1894
Peter A. Hall	Harvard	1729
Sidney Tarrow	Cornell	1718
Donald L. Horowitz	Duke	1619
Arthur H. Miller	U of Iowa	1566
Charles F. Sabel	Columbia	1556
Robert H. Bates	Harvard	1539
N = 20		
International Relations		
Robert O. Keohane	Duke	3951
Bruce M. Russett	Yale	3564
Kenneth N. Waltz	Columbia	2520
Stephen D. Krasner	Stanford	2515
Rudolph J. Rummel	U of Hawaii	2393
Philippe C. Schmitter	Stanford	2375
J. David Singer	Michigan	2086
Guillermo A. O'Donnell	Notre Dame	1966
James N. Rosenau	George Washington	1945
Peter J. Katzenstein	Cornell	1799
Steven J. Brams	NYU	1683
Alexander L. George	Stanford	1674
Robert Jervis	Columbia	1554
Todd Sandler	Univ. of So. Cal.	1386
Ernst B. Haas	UC Berkeley	1268
Richard Falk	Princeton	1082

Name	University	Index
International Relations (continued)		
John J. Mearsheimer	Chicago	1079
Jack S. Levy	Rutgers	1043
John E. Mueller	Ohio State	1026
Hayward R. Alker	Univ. of So Cal	997
N = 20		
Methodology		
Donald R. Kinder	Michigan	2488
Gary King	Harvard	2266
Robert S. Erikson	Columbia	1787
Michael S. Lewis-Beck	U of Iowa	1761
Lee Sigelman	George Washington	1755
Donald P. Green	Yale	1370
Jon A. Krosnick	Ohio State	1301
Nathaniel Beck	UC San Diego	1107
Lawrence B. Mohr	Michigan	1101
Keith T. Poole	Carnegie Mellon	1094
Shanto Iyengar	Stanford	1075
James E. Alt	Harvard	1068
John L. Sullivan	Minnesota	936
Charles W. Ostrom	Michigan State	935
Harold D. Clarke	U of Texas-Dallas	852
Steven J. Rosenstone	Minnesota	841
Larry M. Bartels	Princeton	784
Michael B. MacKuen	UNC Chapel Hill	750
Herbert F. Weisberg	Ohio State	627
John C. Wahlke	U of Arizona	557
N = 20		
Political Theory		
Robert A. Dahl	Yale	5902
David Easton	UC Irvine	2442
Carole Pateman	UCLA	2282
Nancy Fraser	New School	2188
Giovanni Sartori	Columbia	1924
Brian Barry	Columbia	1643
Michael J. Sandel	Harvard	1638
Bernard Grofman	UC Irvine	1532
Russell Hardin	NYU	1508
Benjamin R. Barber	U of Maryland	1493
David E. Apter	Yale	1263
Robert E. Lane	Yale	1220
Amy Gutmann	Princeton	1124
Vincent Ostrom	Indiana	1064
William E. Connolly	Johns Hopkins	1038
David Braybrooke	U of Texas-Austin	980
Jean Bethke Elshtain	Chicago	957
Susan Moller Okin	Stanford	909
Jean L. Cohen	Columbia	813
David Austen-Smith	Northwestern	765
N = 20		
Public Policy, Public Administration, Public Law		
James Q. Wilson	UCLA	7112
Robert Axelrod	Michigan	4971
Theda Skocpol	Harvard	3898
Theodore J. Lowi	Cornell	3299
Elinor Ostrom	Indiana	2888
Frances Fox Piven	CUNY	2693
Alfred Blumstein	Carnegie Mellon	2095
Paul E. Peterson	Harvard	1622
Hugh Heclo	George Mason	1535

(continued)

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Table 4 (Continued)

Name	University	Index
Public Policy, Public Administration, Public Law (continued)		
Robert T. Golembiewski	U of Georgia	1501
Kenneth J. Meier	Texas A&M	1182
Doris A. Graber	U of Illinois-Chicago	1141
Clarence N. Stone	U of Maryland	1118
Mary Corcoran	Michigan	1077
Lester M. Salamon	Johns Hopkins	1042
James L. Perry	Indiana	999
Richard P. Nathan	SUNY-Albany	981
Martha Derthick	U of Virginia	963
Goran Hyden	U of Florida	928
James L. Gibson	Washington U	923
N = 20		

the profession has been steadily rising, we might think that some of the underrepresentation is due to cohort effects in which younger cohorts may have higher proportions of female faculty. We can generate the index of gender representation for each five-year cohort separately. When we do so, we find, contrary to our expectations, that it is the women in earlier cohorts who are better represented in the Political Science 400 relative to their share of jobs than women in later cohorts. In the Political Science 400, the proportion of women peaks in the 1970–1974 cohort (20% of that cohort is female) and then decreases in the younger cohorts. Moreover, the only two cohorts where women are overrepresented as compared to their share of all faculty in Ph.D.-granting institutions are the 1960–1964 and 1970–1974 cohorts (index scores of 1.50 and 1.15, respectively).[13]

Discussion

There are three points we wish to emphasize in looking at both continuities and changes in citation patterns and other aspects of

Table 5
Top 40 Women in the Political Science 400

Name	University	UnivPhD	Year	Index
Theda Skocpol	Harvard	Harvard	1975	3898
Elinor Ostrom	Indiana	UCLA	1965	2888
Frances Fox Piven	CUNY	Chicago	1962	2693
Carole Pateman	UCLA	Oxford	1971	2282
Nancy Fraser	New School	CUNY	1980	2188
Susan Welch	Penn State	U of Illinois-Urbana-Champaign	1970	1679
Susan Rose-Ackerman	Yale	Yale	1970	1501
Doris A. Graber	U of Illinois-Chicago	Columbia	1947	1141
Amy Gutmann	Princeton	Harvard	1976	1124
Mary Corcoran	Michigan	MIT	1975	1077
Martha Derthick	U of Virginia	Radcliffe	1962	963
Jean Bethke Elshtain	Chicago	Brandeis	1973	957
Susan Moller Okin	Stanford	Harvard	1975	909
Margaret Levi	U of Washington	Harvard	1974	876
Pamela J. Conover	UNC Chapel Hill	Minnesota	1979	846
Susan S. Fainstein	Rutgers	MIT	1971	822
Jean L. Cohen	Columbia	Columbia	1979	813
Lee Epstein	Washington U	Emory	1983	759
Martha Feldman	Michigan	Stanford	1983	758
Virginia H. Gray	Minnesota	Washington U	1972	683
Kay Lehman Schlozman	Boston College	Chicago	1973	668
Nancy Hartsock	U of Washington	Chicago	1972	647
Helen V. Milner	Columbia	Harvard	1986	622
Helen M. Ingram	UC Irvine	Columbia	1967	611
Judith Goldstein	Stanford	UCLA	1983	597
Jean C. Oi	Stanford	Michigan	1983	592
Barbara Sinclair	UCLA	Rochester	1970	585
Terry L. Karl	Stanford	Stanford	1982	578
Jennifer L. Hochschild	Harvard	Yale	1979	570
Susan Estrich	Univ. of So. Cal.	Harvard	1977	566
Virginia Sapiro	Wisconsin	Michigan	1976	559
Jane Flax	Howard	Yale	1974	538
Nazli Choucri	MIT	Stanford	1967	523
Valerie Bunce	Cornell	Michigan	1976	498
Dorothy J. Solinger	UC Irvine	Stanford	1975	491
Karen L. Remmer	Duke	Chicago	1974	486
Margaret Weir	UC Berkeley	Chicago	1986	478
Dina A. Zinnes	U of Illinois-Urbana-Champaign	Stanford	1963	478
Hanna Pitkin	UC Berkeley	UC Berkeley	1961	470

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the political science profession since the Klingemann, Grofman, and Campagna (1989) study.

First, despite an elapsed time period of a full 20 years from the data relied upon by Hans-Dieter Klingemann and his co-authors, we find a variety of evidence for continuity at the levels both of individual scholarship and of cohorts. In terms of cohorts, there has been a remarkably slight shift in the composition of the Political Science 400. Whereas Klingemann, Grofman, and Campagna found the 1965–1969 cohort to dominate the Political Science 400 in 1989, we find that the 1970–1974 cohort is at the apex of its prominence today. At the level of individual scholars, we also find a remarkable degree of continuity in the Political Science 400's makeup. For example, of the top 25 scholars from the 1970–1974 cohort identified on the basis of their 1980–1985 citations, 18 are still among the top 25 in that cohort today, and most of those who are not have either taken jobs outside political science Ph.D.-granting departments (e.g., Michael Cohen, in a public policy school), are no longer employed in the academy (Walter Laqueur), are teaching outside the U.S. (Douglas Hibbs), or are dead (Richard McKelvey), and thus no longer in our database. If we look at the top 25 scholars in a still earlier cohort, that of 1960–1964, while only 11 of those who, on the basis of their 1980–1985 citations were in the Top 400, are in our present top 400 list, only one of those still in our database would not retain membership in this select group. The rest are no longer in the top 400 because of deaths, retirements, and having jobs outside of academia.[14] These are the key reasons why the dominance of older cohorts has diminished in the last 20 years; but a countervailing factor enhancing continuity is the fact that top scholars demonstrate long careers characterized by continued eminence in the field.

Second, women (and minorities) continue to be underrepresented in the Political Science 400 relative to their numbers, and the problem does not appear to be diminishing as we look at younger cohorts.

Third, there have been some changes in the profession in terms of relative size of subfields, including the rise of a new subfield, methodology.

This article presents rankings of individual scholars through the use of total lifetime citations. However, we believe that individual-level citation data presents only a partial picture of the change and continuity of the political science profession. To understand the role of institutions on the profession, we must also consider the departments at which these individual faculty members are employed. In the next paper of this series, we will turn to departmental-level data and analyze Ph.D. production and placement rates of U.S. Ph.D.-granting institutions between 1902–2000 in order to determine how departmental prestige has changed over time. In the third paper, we will combine the data presented in this article and the second series paper to create a more comprehensive ranking of Ph.D.-granting departments.

Appendix

In using citation data as we have, numerous caveats are required:

Data Limitations in the SSCI Data

While some problems earlier identified with SSCI (see e.g., Cnudde 1986) have been fixed, there remain a number of limitations in using the SSCI data available online from the Web of Science web site. The most important of these is that of coping with identical last names, further compounded by the following: (a) the Web of Science does not give author's first names but only initials; (b) some authors are not consistent in how they list themselves (for example, one of the present authors used his middle initial for publications early in his career, but subsequently dropped it); (c) marriage or divorce (or simply choices about reclaiming heritage) may lead to changes in professional name; and (d) inconsistencies in how SSCI handles compound and hyphenated names make it especially hard to do reliable citation counts for scholars with multiple or hyphenated names (for example, citations to Bruce Bueno de Mesquita are listed under four different variants of his name). In order to cope with such difficulties we physically reviewed the SSCI listings for each of the 4,000+ scholars who taught at U.S. Ph.D.-granting institutions ca. 2002 and tried to use our knowledge of the profession to distinguish work by the scholar we were interested in from work by his or her namesakes. We recognize that mistakes have inevitably been made. We ask the forgiveness of any scholar whom we may have inadvertently slighted.

A second major problem with the SSCI data is how limited the information we have on co-authorships is. The SSCI has been fully updated to now identify co-authors for journal publications. These updates have not been applied to books; therefore first-authors continue to receive sole credit for co-authored (or co-edited) books. However, although the SSCI officially documents co-authors for journal articles, we have found that not every journal entry has been updated. Thus, while scholars now receive some credit for co-authored work, citations to co-authored work are still undoubtedly undercounted. (This point was made by a reviewer, and by others who read a draft of our paper.) This problem of course, has its greatest impact on authors who frequently co-author, and among those, on ones which use the alphabetical order convention and whose last names begin with letters later in the alphabet. Unfortunately, given the size of the data set we are dealing with, there is simply nothing we can do to remedy this problem. (For co-authors aggrieved by what they have just read, we might simply note that they are not alone. For example, one of the authors of this paper co-edited a 1994 book which received some 80 citations on which he was the second-listed co-editor. The first-listed scholar's last name begins with the letter D, and all citations went to that scholar.)

In sum, using the SSCI requires human ingenuity. We have tried very hard to clean the data, but we ask the reader's understanding of the limits of what is possible.

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Using the SSCI Data to Create Rankings

One issue with use of the SSCI data is that, even when a full set of co-authors does get citation credit, an argument can be made that this overweights co-authored work, since multiple authors are getting credit for the same work. In this view, work which is co-authored should not yield full citation counts to each of the co-authors, and credit should be normalized so that the sum of the author citation counts is one for each co-authored article. Moreover, it has also been suggested to us that the relative credit awarded to each might depend in some fashion on the order of authorship. However, because of the form in which citation data comes on the Web of Science it is essentially impossible to use any rule for fractional weighting of co-authored work (even if one wanted to do so) without recoding each and every citation by hand to separate out singly-authored and co-authored work, and to distinguish second, third, fourth, etc. authors. We have thus, *of necessity*, treated a citation as a citation as a citation, despite the fact that this leads to inconsistencies in how earlier and later citations involving co-authorship are being treated.[15] Moreover, because of the problems in identifying co-authorship, it is also not feasible with a 4,000 case data set involving hundreds of thousands of citations to seek to exclude self-citations.[16]

There are other issues related to assigning weights to citations in addition to the issue of whether to weight co-authored articles differently than singly authored articles.

One reviewer suggested that we ought to weight citations in "major" journals more heavily than citations in "minor" journals. In principle, we agree and, as noted in the text, there have been a number of ranking schemes that, at least in part, do limit themselves to citations (or publications) in "major" journals or seek to combine information about citations with information about where an author is published or cited (see e.g., Miller, Tien, and Peebler 1996). But, once we get past the *APSR* and perhaps the top two regional U.S. journals, we see great difficulties in getting agreement across subfields (and, especially across different methodological approaches) about what are the "top" journals. While there are rankings of political science journals that identify factors such as visibility in the political science community, reputation among those familiar with the journal, and various measures of journal impact, (a) these measures tap different dimensions, and it is not obvious how to combine and weight them for ranking purposes, and (b) if we limit ourselves to a citations in a relative handful of journals, this makes it harder to assess the overall impact of a scholar—especially since that may extend beyond citations in just political science journals. The bottom line is that the SSCI list of journals is a very extensive one (1,000+ in the social sciences as a whole) and it seemed a reasonably "neutral"—although far from perfect—way to identify the set of journals in which citations would "count."[17] In using it, however, we have excluded citations made to publications in the popular press (e.g., *New York Times*), and to works not written in English.

A second additional issue in using citations to rank individual scholars is raised by advocates of the "h index" (Hirsch 2005) who propose to rank scholars not by their total citations but by the number of papers they have that are highly cited, where "highly cited" gets defined in a precise way reminiscent of the Lorenz curve. To use the "h index," we take an author's publications and list them in order of their citation count. Then, counting down from the top, if the kth most cited publication has a citation count of h_k, then the h score equals k for the largest value of k such that h_k is greater than or equal to k. For example, if an author had written 30 papers or books and the first 20 most cited of these each received anywhere from 30 citations to 21 citations (i.e., the author's most cited paper or book had 30 citations while the 20th most cited paper or book had only 21 citations), and also the 21st most frequently cited article had only 19 citations, then the h score would be 20. Indeed, the h score would remain 20 if the author's most cited item had received 300 citations; or 3,000 citations; or 30,000 citations. We strongly prefer simple summation to using h scores. These scores have very strange properties, e.g., someone who published only three books, each of which had citations in the thousands, but who had done nothing else, would receive an h score of 3 whereas someone who had published, say, exactly 20 articles, each of which got 20 citations, would receive an h score of 20. Such a ranking rule would tend to underrate the Karl Marx's of the world.

A third additional issue in using citations for ranking is whether to use cumulative citation data over the course of a scholar's lifetime, or to confine oneself to citations received in some more recent period. In preparing this paper, we generated data on cumulative citation counts broken down by decades,[18] but for space reasons, and to provide direct comparability with Klingemann (1986) and Klingemann, Grofman, and Campagna (1989), we only report lifetime citations. Looking at citations in a very limited period increases error variance, yet on the other hand, using cumulative citations means that we need to control for cohort effects, since scholars differ in how long they have had to accumulate citations to their work. Also a well-established scholar may expect to have more attention paid to his or her work as compared to those in younger cohorts. It is for these reasons we chose to present the list of most cited scholars broken down by Ph.D.-cohort grouping.[19]

There are other potential problems with using SSCI citations for rankings. For example, the SSCI makes use of the citations that appear in academic journals, and does not include citations that appear in books or edited volumes. It is possible that this restriction might lead to some bias against particular styles of work which tend to be published as books rather than as journal articles, but that is a question that goes beyond the scope of the present work. (We suspect, however, that the books or articles which are heavily cited in books are roughly the same books or articles which are heavily cited in articles.) Additionally, some citations are to textbooks or computer manuals or to computer packages (or articles explaining them) while others are to more substantive research monographs and, in principle, we might want to distinguish those different types of references. But that is essentially impossible given our database limitations without attempting an impossibly huge task of classification. Thus, citations to each of these types of works are included in our counts. Finally, since not all citations are positive, and some may involve harsh criticism of an author's work, it might be nice to distinguish positive from negative citations. Still, the fact that some author bothers to criticize a piece is an

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indication that it is being taken seriously. In any case, whatever we might like to be able to do, given the size of the database we are dealing with and the limitations of the automated features of the SSCI online database, we are not in a position to make such distinctions even if we wished to do so. Thus, in sum, and of pragmatic necessity, is why we stick to the one citation equals one citation rule.

Data Issues in Identifying Who is to be Included

We take our data of who is eligible to be in the Political Science 400 from *Graduate Faculty and Programs in Political Science* (APSA 2000), supplemented by the *2002–2004 Directory of Political Science Faculty* (APSA 2002) and the *APSA Centennial Biographical Directory of Members* (APSA 2000). As of 2002, there were 4,103 regular faculty members in the 132 Ph.D.-granting departments in political science in the U.S. For analyses in terms of departmental Ph.D. production, there were 362 (8%) faculty members for whom we did not have complete information regarding their educational background. Among those we identify as members of the Political Science 400 we are missing data on educational background for only one scholar.

The most important thing to note about our selection choice is who it excludes. While the faculty in the list of 400 include a few political science faculty trained outside the U.S., and even a few whose degrees are in a discipline other than political science, for reasons of manageability and consistency, the only faculty who were eligible for inclusion were those who have their *primary* affiliation in a U.S. Ph.D.-granting political science department (ca. 2002).

These restrictions can be very important ones.

They exclude all faculty who teach at a department which is not one of the 132 Ph.D. political science-granting departments in the U.S. (e.g., those who teach at a purely undergraduate-institution or whose highest degree is a masters), and those with jobs outside of academia (e.g., president of the World Bank), or jobs outside the U.S. Indeed, even, political science faculty teaching exclusively in professional schools are not included in our list. Thus, we know that some political science faculty teaching in the U.S. with whose citation visibility we are otherwise familiar, such as Pippa Norris (Kennedy School) or Michael Cohen (School of Information, University of Michigan), are not included in the current Political Science 400 list even though their citation counts would entitle them to this honor. Similarly, there are no doubt political scientists teaching at European universities (or in Canada or elsewhere) whose citation counts would put them into the top 400 ranks, but who are excluded because they are not teaching in graduate programs in the U.S.

The eligibility rules for the Political Science 400 also excluded those with adjunct or lectureship appointments, and faculty who are emeritus if they are no longer listed on faculty rosters. However, as several of those who have been kind enough to read an earlier draft of this essay have reminded us, the way departments treat emeriti is not at all consistent. Some departments continue to list faculty on their masthead long after they are no longer participating members of the department; indeed, perhaps long after they have left the state or even moved to teach at other institutions. We have used the simple rule that emeriti still treated as faculty members on the list provided by departments to APSA are eligible to be in the Political Science 400 regardless of when they might or might not have officially retired or where they might have retired to. In the third essay of this series, where we rank departments by the citations to their members, the decision to include emeriti still listed on departmental faculty lists provided to the APSA has some further implications for department rankings which we will discuss.

Perhaps the next most important problem in trying to decide eligibility has to do with scholars with joint appointments. Since we are interested in later using the citation counts to evaluate the success of Ph.D.-producing institutions in turning out Ph.D.s who go on to be highly cited, in cases of joint appointments, we have usually not counted as eligible someone whose Ph.D. was in a discipline other than political science (or whose other appointment is in a law school). In particular, we have tried to exclude courtesy appointments of faculty who are not really part of the host department. On the other hand, if there are faculty trained in other disciplines whose *principal* home appears now to be political science, we have tried to leave them eligible for membership in the Political Science 400.

We have tried to be consistent in our standards for inclusion and exclusion but, in many instances, deciding who should be in and who out has required a judgment call (sometimes based on looking at departmental or personal home pages and sometimes based on the personal knowledge of one or more of the present authors). For example, a faculty member at our home institution with a Ph.D. in political science and whose work is exclusively in political science who holds an appointment in our department that gives her departmental voting rights but whose primary appointment is in another interdisciplinary department was considered eligible for the list. But we also wish to acknowledge that our decisions do have major consequences for who was excluded. For example, after having done a preliminary version of the Political Science 400, we looked in more detail at those on this preliminary list, and faculty with J.D.s whose primary appointment appears to be in a discipline other than political science (e.g., law school faculty with public law interests such as Bruce Ackerman, Sanford Levinson, and Cass Sunstein; or economists such as Gordon Tullock) were excluded from eligibility, even though their citation count would otherwise entitle them to inclusion in the list.

Notes

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is presented in this series. Comments and corrections can be sent to Bgrofman@uci.edu.

1. Somit and Tanenhaus (1967, 67–70), for example, distinguish five different significant contributors: those who are innovators and contribute a major "new" idea, those who systematize and organize the ideas in a subfield, those who function as a catalyst and encourage experimentation, those who have written an influential textbook, and those who have provided a critical role in the organization of the discipline through professional service.

2. Studies which focus only on publications in top journals justify this limitation by observing that the peer-review process is much more competitive at the top journals, and that top journals are more likely to be read by a wide audience. Thus, the number of publications in the discipline's top journals may provide a good indicator of academic contribution and impact. A practical reason for focusing on top journals is that it makes the data collection process much more manageable.

3. Miller, Tien, and Peebler (1996) also count publications in the *American Political Science Review*, and then combine this data with citation count data to devise a composite ranking scheme.

4. In the Appendix we look at methodological issues such as data availability and reliability. We also consider the implications of limiting ourselves to regular faculty at U.S. Ph.D.-granting institutions, and problems in delineating that set of faculty.

5. There is certainly nothing sacred abut the number "400." Indeed, we understand that the number may originally have been picked in error. Still, it has three attractions. First, with roughly 4,000 faculty in our data set, it corresponds roughly to the top 10%. Second, the 400th member of the list has about 400 citations. Third, and not insignificantly, if allows us to make direct comparisons with the data compiled by Klingemann, Grofman, and Campagna (1989).

6. The size and other characteristics of our data set are described in the Appendix.

7. Some cohorts will have more than 25 scholars, some will have less, so that Table 1 only contains the names of 206 of the 400 most-cited scholars teaching (ca. 2002) at U.S. Ph.D.-granting institutions. The full list is posted here: www.socsci.uci.edu/~bgrofman/.

8. See Appendix.

9. However, because we have only limited data for the 1990–1999 cohort, we would expect it, too, to eventually exhibit a near lognormal distribution of cumulative citation counts.

10. We recognize that although we classify scholars by the subfields listed in the APSA directories, there are a number of scholars on our list who may publish or have reputations for published work in fields outside their listed subfield. For example, a scholar such as Sidney Verba has written highly cited works in both American Government and Comparative Politics, yet we list him as one of the top 20 Comparative Politics scholars in the profession. Although certainly not all citations to Verba will be in Comparative Politics, we choose to honor the first subfield specialization he chose to list for himself in the *APSA Directory*. Moreover, given the way in which published works are listed in the SSCI, it would be too difficult to classify a scholar's citations by subfield.

11. We would also like to note that, as with gender, racial and ethnic minority scholars are clearly underrepresented in the Political Science 400. In particular, scholars of Latino/Hispanic or Asian heritage, at least those whom we can identify using surnames, account for a little over 1% of the top 400 list: R. Michael Alvarez, Steve Chan, Guillermo O'Donnell, Jean Oi, and Arturo Valenzuela.

12. Since Martha Feldman has recently moved from the University of Michigan to UC Irvine, Irvine would join Stanford in having three of the top 40 women on its faculty had we used a later *APSA Directory*. But, of course, there may also be other recent changes of which we are unaware.

13. The overrepresentation of women only in the earlier cohorts may be due to the fact that the more distinguished female scholars are more likely to stay in the profession longer than their less distinguished female peers to an even greater extent than is true for men.

14. One person in this cohort in the Klingemann list would no longer be eligible under our stricter requirement that the person's current primary affiliation be in political science.

15. Earlier work such as Klingemann (1986) and Klingemann, Grofman, and Campagna (1989) used the hardcopy SSCI annual volumes, which only list citations to the first-named author.

16. Also, for the really highly cited authors in the Political Science 400, we are skeptical that taking self-citations into account would matter much, whereas counting or not counting self-citations certainly could affect relative rankings for less highly cited scholars.

17. For example, while there are complaints that the SSCI database inappropriately includes some non-academic journals (Klein and Chiang 2000), the blips this might cause are far too minor to affect the structure of rankings for the most highly cited scholars and, in any case, we have excluded all mainstream journal and news magazines such as *Time*, *Newsweek* and the *New Yorker*.

18. The breakdown by decades we did was in terms of the year of the publication being cited. We did not have time to further break down the data by the year of citation. Ideally, we would like to do both, and we hope to do so in follow-up work looking at citation patterns over the course of scholars' careers.

19. Russell Dalton (personal communication, April 2006) has suggested that we might create a (normalized) measure of citations per year to control for date of Ph.D. effects. This seems like a very sensible thing to do, although for space reasons, we did not take up his suggestion here.

References

American Political Science Association. 2000. *Graduate Faculty and Programs in Political Science: A Directory to the Faculty and Graduate Degree Programs of U.S. and Canadian Institutions*. Washington, D.C.: American Political Science Association.

American Political Science Association. 2000. *Centennial Biographical Directory of Members*. Washington, D.C.: American Political Science Association.

American Political Science Association. 2002. *APSA Directory of Political Science Faculty 2002–2004*. Washington, D.C.: American Political Science Association.

Bayard, Michael, and Neil Mitchell. 1998. "The Good, the Better and the Best in Political Science." *PS: Political Science and Politics* 31(4): 826–8.

Cnudde, Charles F. 1986. "Care in Using the Social Sciences Citation Index: Comment on Klingemann's Method." *PS: Political Science and Politics* 19: 850–2.

Hirsch, J. E. 2005. "An Index to Quantify an Individual's Scientific Research Output." *Proceedings of the U.S. National Academy of Sciences* 102 (46): 16569–72.

Klein, Daniel B., and Erik Chiang. 2004. "The Social Science Citation Index: A Black Box—with an Ideological Bias?" *Econ Journal Watch* 1 (1): 134–65.

Klingemann, Hans-Dieter. 1986. "Ranking Graduate Departments in the 1980's: Toward Objective Qualitative Indicators." *PS: Political Science and Politics* 19 (3): 651–61.

Klingemann, Hans-Dieter, Bernard Grofman, and Janet Campagna. 1989. "The Political Science 400: Citations by Ph.D. Cohort and by Ph.D.-Granting Institution." *PS: Political Science and Politics* 22 (2): 258–70.

McCormick, James, and Tom Rice. 2001. "Graduate Training and Research Productivity in the 1990's: A Look at Who Publishes." *PS: Political Science and Politics* 34 (3): 675–80.

Miller, Arthur H., Charles Tien, and Andrew A. Peebler. 1996. "Department Rankings: An Alternative Approach." *PS: Political Science and Politics* 29 (4): 704–28.

Morgan, David, and Michael Fitzgerald. 1977. "Recognition and Productivity Among American Political Science Departments." *Western Political Quarterly* 30 (3): 342–50.

Robey, John. 1979. "Political Science Departments: Reputations versus Productivity." *PS: Political Science and Politics* 12 (2): 202–9.

Roettiger, Walter. 1978. "Strata and Stability: Reputations of American Political Scientists." *PS: Political Science and Politics* 11 (1): 6–12.

Somit, Albert, and Joseph Tanenhaus. 1967. *The Development of American Political Science: From Burgess to Behavioralism*. New York: Boston, Allyn and Bacon.

Wuffle, A. 1986. "Reflections on Academia." *PS: Political Science and Politics* 19 (1): 57–61.

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